

# Ting'an Zhang

## List of Publications by Year in descending order

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60  
papers

721  
citations

567281

15  
h-index

642732

23  
g-index

60  
all docs

60  
docs citations

60  
times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery of alkali and alumina from bauxite residue (red mud) and complete reuse of the treated residue. <i>Journal of Cleaner Production</i> , 2018, 188, 456-465.	9.3	118
2	Extraction of vanadium from vanadium slag by high pressure oxidative acid leaching. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 21-26.	4.9	34
3	Pressure acid leaching of zinc sulfide concentrate. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, s136-s140.	4.2	32
4	Effect of microwave heating on the pressure leaching of vanadium from converter slag. <i>Hydrometallurgy</i> , 2019, 184, 45-54.	4.3	29
5	Pressure leaching of converter vanadium slag with waste titanium dioxide. <i>Rare Metals</i> , 2016, 35, 576-580.	7.1	25
6	Extraction Separation of Sc(III) and Fe(III) from a Strongly Acidic and Highly Concentrated Ferric Solution by D2EHPA/TBP. <i>Jom</i> , 2018, 70, 2837-2845.	1.9	22
7	Kinetics of indium dissolution from marmatite with high indium content in pressure acid leaching. <i>Rare Metals</i> , 2017, 36, 69-76.	7.1	21
8	Extraction of vanadium from direct acid leach solution of converter vanadium slag. <i>Canadian Metallurgical Quarterly</i> , 2017, 56, 281-293.	1.2	20
9	Thermodynamic study on the V(V)-P(V)-H <sub>2</sub> O system in acidic leaching solution of vanadium-bearing converter slag. <i>Separation and Purification Technology</i> , 2019, 218, 164-172.	7.9	20
10	Preparation and characterization of LaB <sub>6</sub> ultra fine powder by combustion synthesis. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 1790-1794.	4.2	19
11	Numerical and Physical Study on a Cylindrical Tundish Design to Produce a Swirling Flow in the SEN During Continuous Casting of Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2695-2706.	2.1	19
12	Magnesium Production by Silicothermic Reduction of Dolime in Pre-prepared Dolomite Pellets. <i>Jom</i> , 2016, 68, 3208-3213.	1.9	18
13	Preparation of highly pure vanadyl sulfate electrolyte from vanadium slag leach solution with the complexing effect of EDTA on Fe(III). <i>Hydrometallurgy</i> , 2019, 188, 54-63.	4.3	18
14	A novel continuous and controllable method for fabrication of as-cast TiAl alloy. <i>Journal of Alloys and Compounds</i> , 2019, 789, 266-275.	5.5	16
15	Electrochemical separation of magnesium from solutions of magnesium and lithium chloride. <i>Hydrometallurgy</i> , 2020, 191, 105166.	4.3	16
16	Research Progress on the Extractive Metallurgy of Titanium and Its Alloys. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2021, 42, 535-551.	5.0	16
17	Reductive leaching of indium-bearing zinc ferrite in sulfuric acid using sulfur dioxide as a reductant. <i>Hydrometallurgy</i> , 2019, 186, 192-199.	4.3	15
18	A new energy-efficient and environmentally friendly process to produce magnesium. <i>Canadian Metallurgical Quarterly</i> , 2017, 56, 418-425.	1.2	13

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19	Preparation of CuCr alloys by thermit-reduction electromagnetic stirring. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2007, 14, 538-542.	0.2	12
20	Numerical Study on the Influence of a Swirling Flow Tundish on Multiphase Flow and Heat Transfer in Mold. <i>Metals</i> , 2018, 8, 368.	2.3	12
21	Deoxidation Mechanism in Reduced Titanium Powder Prepared by Multistage Deep Reduction of TiO <sub>2</sub> . <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 282-290.	2.1	12
22	Formation Mechanism and Distribution of Al and O in the Ferrotitanium with Different Ti Contents Prepared by Thermite Method. <i>Jom</i> , 2019, 71, 3584-3589.	1.9	11
23	Feasibility study on the use of thiosulfate to remediate mercury-contaminated soil. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 813-821.	2.2	11
24	The Novel Combination of Strength and Ductility in 0.4Ca-7Mn-3.2Al Medium Manganese Steel by Intercritical Annealing. <i>Steel Research International</i> , 2019, 90, 1900228.	1.8	10
25	Basic study on direct preparation of lithium carbonate powders by membrane electrolysis. <i>Hydrometallurgy</i> , 2020, 191, 105193.	4.3	10
26	Volatilization and condensation behavior of magnesium vapor during magnesium production via a silicothermic process with magnesite. <i>Vacuum</i> , 2021, 189, 110227.	3.5	10
27	Oxidative acid leaching of mechanically activated sphalerite. <i>Canadian Metallurgical Quarterly</i> , 2018, 57, 59-69.	1.2	9
28	Effect of swirling flow tundish submerged entry nozzle outlet design on multiphase flow and heat transfer in mould. <i>Ironmaking and Steelmaking</i> , 2019, 46, 911-920.	2.1	9
29	Oxygen content of high ferrotitanium prepared by thermite method with different melt separation temperatures. <i>Rare Metals</i> , 2019, 38, 892-898.	7.1	9
30	Sulfur distribution in preparation of high titanium ferroalloy by thermite method with different CaO additions. <i>Rare Metals</i> , 2019, 38, 793-799.	7.1	9
31	Nucleation and Condensation of Magnesium Vapor in Argon Carrier. <i>Metals</i> , 2020, 10, 1441.	2.3	9
32	Thermo-sensitive amphiphilic supramolecular assembly based on cyclodextrin inclusion. <i>Journal of Colloid and Interface Science</i> , 2010, 351, 63-68.	9.4	8
33	Research on sulphur conversion and acid balance from marmatite in pressure acid leaching. <i>Canadian Metallurgical Quarterly</i> , 2016, 55, 438-447.	1.2	7
34	Reaction behaviors and amorphization effects of titanate species in pure substance systems relating to Bayer digestion. <i>Hydrometallurgy</i> , 2017, 171, 86-94.	4.3	7
35	Numerical simulation of preparation of ultrafine cerium oxides using jet-flow pyrolysis. <i>Rare Metals</i> , 2019, 38, 1160-1168.	7.1	7
36	Mechanism of Melt Separation in Preparation of Low-Oxygen High Titanium Ferroalloy Prepared by Multistage and Deep Reduction. <i>Metals</i> , 2020, 10, 309.	2.3	7

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37	Research on the mechanism of sodium separation in bauxite residue synergy preparation of potassium-containing compound fertilizer raw materials by the hydrothermal method. Journal of Environmental Management, 2022, 317, 115359.	7.8	7
38	Numerical simulation: preparation of La <sub>2</sub> O <sub>3</sub> in a jet pyrolysis reactor. Rare Metals, 2015, 34, 600-606.	7.1	6
39	A new method for direct synthesis of Li <sub>2</sub> CO <sub>3</sub> powders by membrane electrolysis. Rare Metals, 2018, 37, 716-722.	7.1	6
40	Distribution and Control Mechanism of Al and O Residuals in Ferrotitanium Prepared by Aluminothermic Reduction with Insufficient Al. Jom, 2019, 71, 809-814.	1.9	6
41	Separation and Extraction of Scandium from Titanium Dioxide Waste Acid. Jom, 2021, 73, 1301-1309.	1.9	6
42	Simulation of Process and Reactor Structure Optimization for CeO <sub>2</sub> Preparation from Jet-Flow Pyrolysis. Jom, 2019, 71, 1660-1666.	1.9	5
43	Condensation Behavior of Magnesium Metal in Argon Gas. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 3098-3107.	2.1	5
44	Progress in the Preparation of Large-Size High-Performance CuCr Alloys. Advances in Materials Science and Engineering, 2022, 2022, 1-18.	1.8	5
45	Hydrothermal conversion of Ti-containing minerals in system of Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -CaO-TiO <sub>2</sub> -H <sub>2</sub> O. Rare Metals, 2016, 35, 495-501.	7.1	4
46	Numerical simulation of flash vaporisation in alumina production. Canadian Metallurgical Quarterly, 2016, 55, 463-469.	1.2	4
47	Kinetic models of zinc dissolution from artificial sphalerite with different iron contents in oxygen pressure leaching. Canadian Metallurgical Quarterly, 2020, 59, 343-359.	1.2	4
48	Mechanisms of Metal-Slag Separation Behavior in Thermite Reduction for Preparation of TiAl Alloy. Journal of Materials Engineering and Performance, 2021, 30, 9315-9325.	2.5	4
49	Numerical Simulation on the Recovery Process of Acid Pickling Waste Liquor by Jet-Flow Pyrolysis. Jom, 2019, 71, 4944-4949.	1.9	3
50	Numerical Simulations of Irregular CeO <sub>2</sub> Particle Size Distributions. Jom, 2019, 71, 34-39.	1.9	3
51	Oxygen pressure acid leaching of artificial sphalerite catalyzed by Fe <sup>3+</sup> /Fe <sup>2+</sup> self-precipitation. Journal of Central South University, 2020, 27, 1703-1713.	3.0	2
52	Cu <sup>2+</sup> -catalyzed mechanism in oxygen-pressure acid leaching of artificial sphalerite. International Journal of Minerals, Metallurgy and Materials, 2020, 27, 910-923.	4.9	2
53	Pyrolysis Preparation Process of CeO <sub>2</sub> with the Addition of Citric Acid: A Fundamental Study. Crystals, 2021, 11, 912.	2.2	2
54	Research on Properties of Prefabricated Pellets of Silicothermic Process After Calcination in Flowing Argon Atmosphere. Minerals, Metals and Materials Series, 2020, , 303-308.	0.4	2

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55	Preparation of Cerium Oxide via Microwave Heating: Research on Effect of Temperature Field on Particles. Crystals, 2022, 12, 843.	2.2	2
56	Modulating Mechanical Properties of Fe-0.35C-3.2Al-5Mn Hot-Rolled Steel by Combining Twinning-Induced Plasticity plus Transformation-Induced Plasticity Effect. Steel Research International, 2022, 93, 2100534.	1.8	1
57	Study on Compressive Strength of Pellets for the Novel Silicothermic Process. , 2015, , 49-53.		1
58	Effect of mechanical activation on leaching of zinc and indium from indium-bearing zinc ferrite with sulphur dioxide as leachant and reductant. Canadian Metallurgical Quarterly, 0, , 1-10.	1.2	1
59	Process strengthening for electrochemical reduction of solid TiO <sub>2</sub> to Ti in situ. Rare Metals, 2018, , 1.	7.1	0
60	Numerical Simulation Study on the Preparation of Micro-Nanometer MgO Magnesium Oxide by Direct Pyrolysis of Molten MgCl <sub>2</sub> Magnesium Chloride. Russian Journal of Non-Ferrous Metals, 2019, 60, 473-482.	0.6	0